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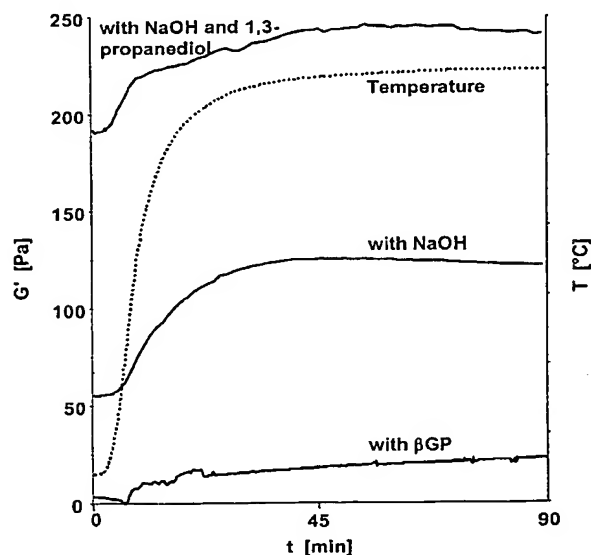
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(54) Title: **PSEUDO-THERMOSETTING NEUTRALIZED CHITOSAN COMPOSITION FORMING A HYDROGEL AND A PROCESS FOR PRODUCING THE SAME**

Elastic modulus (G') of three hydrogels as a function of time when temperature increases from 4 to 37°C.



"With NaOH" refers to the hydrogel obtained in Example 6

"With NaOH and 1,3-propanediol": refers to hydrogel obtained in Example 7

"With β-GP": refers to comparative hydrogel obtained in Example 10 (Comparative)

(57) Abstract: The composition disclosed is a pseudo-thermosetting neutralized chitosan composition, neutralized with an hydroxylated base, forming a phosphate-free transparent hydrogel at a temperature higher than 5°C. Said composition contains a homogeneously reacylated chitosan derived from a chitosan having a deacetylation degree of 80 - 90 %, having a molecular weight of not smaller than 200 kDa and a deacetylation degree of 30 - 60 %, and may further contain a diol. Said composition may be used as a drug delivery system.



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